

Form PTO-449

Attorney Docket No.
C152 1092.1Serial No.
10/686,684

INFORMATION DISCLOSURE CITATION

Applicant
Crafton et al.

(Use several sheets if necessary)

Filing Date
October 16, 2003Group
175

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
8/82	AA	5,531,423	07/96	Crafton et al.	266	44	1
	AB	5,565,046	10/96	Crafton et al.	148	538	1
	AC	5,294,094	03/94	Crafton et al.	266	44	
	AD	5,350,160	09/94	Crafton et al.	266	252	
	AE	5,354,038	10/94	Crafton	266	44	
	AF	5,439,045	08/95	Crafton	164	5	
	AG	5,551,998	09/96	Crafton et al.	148	538	
	AH	5,738,162	04/98	Crafton	164	5	
	AI	4,340,433	07/82	Harding	148	16	
	AJ	4,604,055	08/86	Mackenzie	432	58	
	AK	4,648,836	03/87	Thom	432	107	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
8/82	AL	2074022	09/85	Japan	C21D	05/00		
	AM	5939464	08/82	Japan	B22D	29/00		
	AN	59219410	12/84	Japan	C21D	01/63		
	AO	5825860	02/83	Japan	B22D	29/00		
	AP	5653867	05/81	Japan	B22D	29/00		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

8/82	AQ	Economical Used Energy Type Continuing Heat Treating Furnace For Aluminum Castings Dogyo - Kanetsu Vol. 21 No. 2 Pages 29-36 - March 1984
	AR	Brochures describing Beardsley & Pipe PNEU-RECLAIM Sand Reclamation Units Prior to August 13, 1992
	AS	Brochure describing Fataluminum Sand Reclamation Units - Prior to August 13, 1992

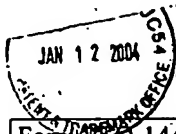
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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DATE CONSIDERED:

1/6/05

Patent and Trademark Office: U. S. DEPARTMENT OF COMMERCE



Form PTO-1449 INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Attorney Docket No. C152 1092.1	Serial No. 10/686,684
	Applicant Crafton et al.	
	Filing Date October 16, 2003	Group 1725

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
lfx	BA	4,392,814	07/83	Harding	431	170	
	BB	4,478,572	10/84	Selli	432	13	
	BC	4,415,444	11/83	Guptail	209	3	
	BD	4,411,709	10/83	Nakanishi	148	3	
	BE	4,700,766	10/87	Godderidge	164	5	
	BF	4,620,586	11/86	Musschoot	164	253	
	BG	3,871,438	03/75	Visser et al.	164	5	
	BH	4,140,467	02/79	Ellison et al.	432	72	
	BI	5,253,698	10/93	Keough et al.	164	269	
	BJ	4,457,352	07/84	Scheffer	164	5	
	BK	4,579,319	04/86	Sasaki	266	252	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
lfx	BL	2230720	10/90	UK	B220	29/00		
	BM	0234810	03/85	USSR				
	BN	6316853	01/88	Japan				
	BO	3206048	02/82	Germany	B22D	21/04		
	BP	2307773	02/73	Germany	B22C	05/02		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

lfx	BQ	Paul M. Crafton - Heat Treating Aging System Also Permits Core Sand Removal - Reprinted from 09/89 Modern Castings magazine
	BR	Sales brochure describing Thermfire Brand Sand Reclamation, Gudgeon Bros., Ltd. believed to be known to others prior to 09/89
	BS	Sales brochure describing Simplicity/Richards Gas-Fired Thermal Reclamation System Simplicity Engineering, Inc. - believed to be known to others prior to 09/89

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EXAMINER'S SIGNATURE: P. H. Kim	DATE CONSIDERED: 1/6/05
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Form PTO-1449		Attorney Docket No. C152 1092.1		Serial No. 10/686,684			
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant Crafton et al.			
				Filing Date October 16, 2003		Group 1725	
U.S. PATENT DOCUMENTS							
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
J. H. A.	CA	2,988,351	06/61	Barnett et al.	263	40	
	CB	4,211,274	07/80	Slowinski et al.	164	401	
	CC	4,294,436	10/81	Takahashi	266	257	
	CD	3,534,946	10/70	Westerkamp et al.	263	28	
	CE	4,577,671	03/86	Stephan	164	401	
	CF	4,544,013	10/85	Kearney et al.	164	5	
	CG	4,955,425	09/90	McKenna	164	269	
	CH	4,582,301	04/86	Wunning	266	87	
	CI	3,737,280	06/73	Crompt	432	14	
	CJ	5,423,370	06/95	Bonnemersou et al.	164	132	
CK	4,161,389	07/79	Staffin et al.	432	58		
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
J. H. A.	CL	6092040	05/85	Japan	B22C	3/00	
	CM	4012158	1989	Germany			
	CN	1129012	07/82	USSR	B22C	5/00	
	CO	2914221	04/79	Germany	B22C	5/00	
	CP	1569152	06/80	UK	F23G	7/00	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
J. H. A.	CQ	Sales brochure describing AirTrac Brand Fluidizing Conveyor, Air Trac Systems Corp., believed to be known to others prior to 09/89					
	CR	Sales brochure describing Fluid Bed Calcifer Thermal Sand Reclamation Systems. Dependable Foundry Equipment Co. - Believed to be known to others prior to 09/89					
	CS	Foundry Management & Technology - 12/89 - Vol. 117; No. 12; Pg. G3 - Shakeout/Cleaning/ Finishing Brochure					
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							
EXAMINER'S SIGNATURE: J. H. A.				DATE CONSIDERED: 11/6/05			

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Form PTO-1449 INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>					Attorney Docket No. C152 1092.1		Serial No. 10/686.684	
					Applicant Crafton et al.			
					Filing Date October 16, 2003		Group 1725	
U.S. PATENT DOCUMENTS								
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
7H2 ↓	DA	4,519,718	05/85	Staffin et al.	374	45		
	DB	4,457,788	07/84	Staffin et al.	148	20.3		
	DC	5,378,434	01/95	Staffin et al.	422	141		
	DD	5,018,707	05/91	Hemsath et al.	266	254		
	DE	5,251,683	10/93	Backer	164	98		
	DF	5,547,228	10/85	Girrell et al.	148	16		
	DG	4,671,496	06/87	Girrell et al.	266	78		
	DH	4,512,821	04/85	Staffin et al.	148	16.5		
	DI	4,524,957	06/85	Staffin et al.	266	252		
	DJ	4,779,163	10/88	Bickford et al.	361	212		
DK	5,169,913	12/92	Staffin et al.	526	65			
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
7H2 ↓	DL	2337894	11/74	Germany	B08b	7/04		
	DM	1564151	04/80	UK	F27B	15/00		
	DN	2315958	04/74	Germany	F23G	7/06		
	DO	7043571	12/70	France	G01N	15/00		
	DP	1392405	04/75	UK	G01N	25/00		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)								
A large diagonal line is drawn across this section, indicating no other documents are provided.								
<small>* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.</small>								
EXAMINER'S SIGNATURE: 4. ft diu					DATE CONSIDERED: 1/6/05			

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					Applicant Crafton et al.			
					Filing Date October 16, 2003		Group 175	
U.S. PATENT DOCUMENTS								
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
↓	EA	4,613,713	09/86	Staffin et al.	585	241		
	EB	4,068,389	01/78	Staffin et al.	34	57A		
	EC	4,623,400	11/86	Japka et al.	148	0.35		
	ED	3,760,800	09/73	Staffin et al.	128	24.1		
	EE	4,830,605	05/89	Hodate et al.	431	170		
	EF	4,242,077	12/80	Hyre	431	19		
	EG	2,813,318	11/57	W. Horth	22	89		
	EH	4,681,267	07/87	Leidel et al.	241	23		
	EI	2,385,962	10/45	C.A. Barnett	34	13		
	EJ	5,850,866	12/98	Crafton	164	5		
↓	EK	5,829,509	11/98	Crafton	164	5		
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation Yes No	
↓	EL	1197981	12/85	Canada	B01J	8/18		
	EM	2104164	08/90	Japan	B22D	29/00		
	EN	62110248	05/87	Japan	H01J	37/28		
	EO	63108941	05/88	Japan	B22C	5/00		
	EP	2323805	05/73	Germany	F27B	09/10		
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, etc.)</i>								
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.								
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					Applicant Crafton et al.			
					Filing Date October 16, 2003		Group 175	
U.S. PATENT DOCUMENTS								
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
9/16/03 ↓	FA	4,177,952	12/79	Rikker	241	40		
	FB	4,325,424	04/82	Scheffer	164	5		
	FC	4,499,940	02/85	Hall	164	36		
	FD	6,112,803	09/00	Kruger	164	103		
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FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation Yes No	
8/20/03 ↓	FE	5825417	02/83	Japan	C21D	1/00		
	FF	WO 98/14291	04/98	PCT	B22D	29/00		
	FG	2187398	09/87	UK	F27B	15/09		
	FH	WO 97/30805	08/97	PCT	B22C	25/00		
	FI	195 30 975	02/97	Germany	B22C	5/00		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)								
<div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border-left: 1px solid black; border-right: 1px solid black; border-bottom: 1px solid black;"></div>								
<small>* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.</small>								
EXAMINER'S SIGNATURE: E. H. Davis					DATE CONSIDERED: 1/6/05			

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	Applicant Crafton et al.	
	Filing Date October 16, 2003	Group 1725

88888 U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>f. f. x</i>	HA	4,817,920	04/89	Erfort, Jr.	266	252	
	HB	5,340,418	08/94	Wei	148	549	
	HC	5,536,337	07/96	Wei	148	549	
	HD	4,419,143	12/83	Ito et al.	148	3	
	HE	4,420,345	12/83	Ito et al.	148	3	
	HF	4,177,085	12/79	Chadwick et al.	148	2	
	HG	4,027,862	06/77	Schaefer et al.	266	160	
	HH	3,996,412	12/76	Schaefer et al.	13	20	
	HI	3,856,583	12/74	Sanders et al.	148	159	
	HJ	4,620,884	11/86	Heath	148	128	
	HK	4,752,061	06/88	Dalton et al.	266	87	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
<i>f. f. x</i>	HL	61007058	01/86	Japan	B22D	29/00		
	HM	2,248,569	04/92	UK	B22D	29/00		
	HN	3215809	04/82	Germany	B22D	29/00		
	HO	DE1 030 974	09/55	Germany	B22D	31c/32		
	HP	0 077 511	10/82	Europe	B22D	29/00		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<i>f. f. x</i>	HQ	ASM Handbook, Vol. 4, Heat Treating, pp. 465-464, (April 1993)
	HR	The Making, Shaping and Treating of Steel, pp. 1267-1276 (10 th Edition - December 1989)
	HS	Preliminary Remarks dated 07/30/1991 and filed in Serial No. 07/705,626

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EXAMINER'S SIGNATURE:

P. P. Lin

DATE CONSIDERED:

1/6/05

Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE



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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Applicant Crafton et al.				
				Filing Date October 16, 2003		Group 126		
88888 U.S. PATENT DOCUMENTS								
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
Q f f	IA	3,675,905	07/72	Placek	263	2		
	IB	3,194,545	07/65	Smith	266	3		
	IC	3,222,227	12/65	Baugh et al.	148	11.5		
	ID	3,432,368	03/69	Nakamura	148	12		
	IE	3,604,695	09/71	Steeper	266	5T		
	IF	3,794,232	02/74	Petri	226	50		
	IG	4,021,272	05/77	Asai et al.	148	15		
	IH	4,098,624	07/78	Laird, Jr.	148	153		
	II	4,255,133	03/81	Tanifuji et al.	432	24		
	IJ	4,257,767	03/81	Price	432	24		
	IK	4,338,077	07/82	Shibayama et al.	432	11		
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation Yes No	
Q f f	IL	WO 01/08836 A1	02/01	PCT	B22D	29/00		
	IM	2,310,541	09/73	Germany	18c	1/00		
	IN	WO 00/36354	06/00	PCT	F27B	5/04		
	IO	0 610 028	08/94	Europe	F27D	3/00		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)								
Q f f	IP	Declaration of Paul M. Crafton and Scott P. Crafton dated 07/26/1991 and filed in Serial No. 07/705,626						
	IQ	On Sale Description Regarding System of Consolidated Engineering System (before 08/13/92)						
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.								
EXAMINER'S SIGNATURE: Q f f				DATE CONSIDERED: 1/6/05				



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					Applicant Crafton et al.			
					Filing Date October 16, 2003		Group 1725	
U.S. PATENT DOCUMENTS								
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
148X ↓	JA	4,357,135	11/82	Wilde et al.	432	11		
	JB	4,457,789	07/84	Wilks	148	134		
	JC	4,606,529	08/86	Tooch	266	80		
	JD	4,832,764	05/89	Merz	148	131		
	JE	4,878,952	11/89	Pillhoefer	148	1		
	JF	5,108,519	04/92	Armanie et al.	148	12.7A		
	JG	5,108,520	04/92	Liu et al.	148	12.7R		
	JH	5,115,770	05/92	Yen et al.	123	193.6		
	JI	5,120,372	06/92	Yen et al.	420	537		
	JJ	5,178,695	01/93	LaSalle et al.	148	698		
↓	JK	5,226,983	07/93	Skinner et al.	148	549		
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation Yes No	
(This section is crossed out with a diagonal line.)								
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)								
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				Applicant Crafton et al.				
				Filing Date October 16, 2003		Group 1715		
U.S. PATENT DOCUMENTS								
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
J. K. L.	KA	5,306,359	04/94	Eppeland et al.	148	511		
	KB	5,308,410	05/94	Hurimura et al.	148	561		
	KC	5,312,498	05/94	Anderson	148	695		
	KD	5,336,344	08/94	Wei	148	549		
	KE	5,340,089	08/94	Heath et al.	266	87		
	KF	5,485,985	01/96	Eppeland et al.	266	87		
	KG	5,514,228	05/96	Wyatt-Mair et al.	148	551		
	KH	5,518,557	05/96	Jones et al.	148	511		
	KI	5,547,523	08/96	Blankenship, Jr. et al.	148	677		
	KJ	5,551,670	09/96	Heath et al.	266	87		
✓	KK	5,571,347	11/96	Bergsma	148	550		
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)								
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EXAMINER'S SIGNATURE: J. K. L.					DATE CONSIDERED: 1/6/05			

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U.S. PATENT DOCUMENTS								
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
1-lex	LA	5,593,519	01/97	Blankenship, Jr. et al.	148	514		
	LB	5,643,372	07/97	Sainfort et al.	148	699		
	LC	4,490,107	12/84	Kimura et al.	422	11		
	LD	6,217,317	04/01	Crafton et al.	432	128		
	LE	6,547,556	04/03	Crafton, et al.	164	131		
	LF	6,467,529	10/02	Kay	164	131		
	LG	6,253,830	07/01	Bickford, et al.	164	132		
	LH	5,901,775	05/99	Musschoot, et al.	164	404		
	LI	5,156,800	10/92	Buchet et al	266	99		
	LJ	6,325,873	12/01	Pollkoetter	148	552		
✓	LK	4,427,375	01/84	Di Rosa	432	58		
FOREIGN PATENT DOCUMENTS								
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, etc.)</i>								
<p>* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.</p>								
EXAMINER'S SIGNATURE: <i>L. H. Davis</i>				DATE CONSIDERED: <i>4/6/05</i>				

Form PTO-1449 INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Attorney Docket No. C152 1092.1		Serial No. 10/686,684	
				Applicant Crafton et al.			
				Filing Date October 16, 2003		Group 125	
U.S. PATENT DOCUMENTS							
Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
ELK	MA	5,443,383	08/95	Kuehn	432	128	
	MB	4,627,814	12/86	Hattori et al.	432	128	
	MC	4,490,107	12/84	Kimura et al.	432	11	
	MD	5,052,923	10/91	Peter et al.	432	207	
	ME	3,351,687	11/67	Thome et al.	432	133	
	MF	5,329,917	08/93	Lutkie et al.	99	443C	
	MG	6,042,369	03/00	Bergman et al.	432	15	
	MH	5,251,683	10/93	Backer	164	98	
	MI	3,993,420	11/76	Hass et al.	425	127	
	MJ	5,263,652	11/93	Iwanami et al.	241	57	
FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
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Attorney Docket No.
C152 1092.1Serial No.
10/686,684

INFORMATION DISCLOSURE CITATION

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Crafton et al.Filing Date
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175

U.S. PATENT DOCUMENTS

Examiner Initials	Item	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
9.10x	NA	4,802,525	02/89	Heine et al.	432	128	
	NB	4,627,814	12/86	Hattori et al.	432	128	
	NC	4,490,107	12/84	Kimura et al.	432	11	
	ND	5,052,923	10/91	Peter et al.	432	207	
	NE	3,351,687	11/67	Thome et al.	432	133	
	NF	5,329,917	08/93	Lutkie et al.	99	443C	
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	NH	6,622,775	09/03	Crafton et al.	164	131	

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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